

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A heat-seal polymer film comprising a layer of film formed from a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from ~~about 0.5%~~ 1% to ~~about 30%~~ 15% by weight wherein the ethylene-propylene copolymer has a ~~DSC melting point~~ seal initiation temperature of less than ~~about 125°C~~.
2. (canceled).
3. (canceled)
4. (currently amended) The heat-seal polymer film of claim 1, wherein the film has a seal initiation temperature of from ~~about 80°C~~ to ~~about 125°C~~ defined at a seal strength of 200 g/inch.
5. (canceled)
6. (original) The heat-seal polymer film of claim 1, wherein the film has less than 3% haze.
7. (original) The heat-seal polymer film of claim 1, wherein the film has greater than 85% gloss at a 45° incident angle.
8. (original) The heat-seal polymer film of claim 1, wherein the random copolymer has a xylene solubles content of less than 5% by weight.

9. (original) The heat-seal polymer film of claim 1, wherein the layer of film is a cast film.
10. (original) The heat-seal polymer film of claim 1, wherein the layer of film is an oriented film.
11. (currently amended) The heat-seal polymer film of claim 1, wherein the random copolymer has a ~~DSC melting point~~ seal initiation temperature from ~~about~~ 110° C to ~~about~~ 125°C.
12. (canceled)
13. (canceled)
14. (previously presented) The heat-seal polymer film of claim 1, wherein the heat-seal film has an ultimate seal strength that is at least 30% greater than a heat-seal film prepared under similar conditions from a random copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.
15. (original) The heat-seal polymer film of claim 1, wherein the heat-seal film is a cast film and provides a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.
16. (currently amended) A multi-layer polymer film comprising a polyolefin core layer and at least one heat-seal layer formed from a metallocene catalyzed. isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from ~~about 0.5%~~ 1% to ~~about 30%~~ 15% by weight, wherein the ethylene-propylene copolymer has a ~~DSC melting point~~ seal initiation temperature of less than ~~about~~ 125°C that is joined to the polyolefin core layer.

17. (original) The multi-layer polymer film of claim 16, wherein the core layer and heat-seal layer are coextruded together.

18. (original) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a thickness that is less than the thickness of the core layer.

19. (original) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a thickness that is 20% or less than the thickness of the core layer.

20. (canceled)

21. (canceled)

22. (currently amended) The multi-layer polymer film of claim 16, wherein the heat-seal layer has a seal initiation temperature of from ~~about~~ 80°C to ~~about~~ 125°C defined at a seal strength of 200 g/inch.

23. (canceled).

24. (previously presented) The multi-layer polymer film of claim 16, wherein the heat-seal layer provides an ultimate seal strength that is at least 30% greater than a heat-seal layer prepared under similar conditions from a random copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

25. (currently amended) The multi-layer polymer film of claim 16, wherein the random copolymer has a ~~DSC melting point~~ seal initiation of from ~~about~~ 110°C to ~~about~~ 125°C.

26. (canceled)

27. (canceled)

28. (original) The multi-layer polymer film of claim 16, wherein the heat-seal layer is a cast film layer and provides a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

29. (currently amended) A material for use in heat-seal applications comprising a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from ~~about 0.5%~~ 1% to about ~~30%~~ 15% by weight, wherein the ethylene-propylene copolymer has a ~~DSC melting point~~ seal initiation temperature of less than ~~about 125°C~~.

30. (previously presented) The material of claim 29, wherein the material provides a heat-seal film having an ultimate seal strength that is at least 30% greater than a heat-seal film prepared under similar conditions from a copolymer of propylene and ethylene using a Ziegler-Natta catalyst useful in the polymerization of isotactic polypropylene.

31. (canceled).

32. (canceled)

33. (currently amended) The material of claim 29, wherein the material provides a heat-seal film having a seal initiation temperature of from ~~about 80°C~~ to ~~about 125°C~~ defined at a seal strength of 200 g/inch.

34. (canceled).

35. (original) The material of claim 29, wherein the material provides a heat-seal film having less than 3% haze.

36. (original) The material of claim 29, wherein the material provides a heat-seal film having greater than 85% gloss at a 45° incident angle.

37. (original) The material of claim 29, wherein the random copolymer has a xylene solubles content of less than 5% by weight.

38. (currently amended) The material of claim 29, wherein the random copolymer has a ~~DSC melting point~~ seal initiation of from ~~about~~ 110°C to ~~about~~ 125°C.

39. (canceled)

40. (canceled)

41. (original) The material of claim 29, wherein the material provides a cast heat-seal film having a hot-tack seal strength above 0.4 N/cm at a temperature range of from 60°C to 130°C.

42. (currently amended) A method of forming a heat-seal film comprising: providing a metallocene catalyzed, isotactic ethylene-propylene copolymer having a random comonomer distribution, the ethylene present in the ethylene-propylene copolymer in an amount of from ~~about 0.5%~~ 1% to ~~about 30%~~ 15% by weight. wherein the ethylene-propylene copolymer has a ~~DSC melting point~~ seal initiation temperature of less than ~~about~~ 125°C and forming the copolymer into a layer of film.